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APPLICATION NO	. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,194	0/811,194 03/26/2004		Paul A. Fleenor	HE0104A	2934
21495	7590	08/02/2004		EXAM	INER
CORNING POBOX		E SYSTEMS LLC	LE, THANH TAM T		
HICKORY, NC 28603				ART UNIT	PAPER NUMBER
				2839	
				DATE MAILED: 08/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/811,194	FLEENOR ET AL.					
Office Action Summary	Examiner	Art Unit					
	Thanh-Tam T. Le	2839					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the mail of the period by the Office later than three months after the mail of the period for the period for the period for reply will, by state that the mail of the period for the period for the period for reply will, by state that the period for reply within the set or extended period for reply will, by state that the period for the per	J. 1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 bd will apply and will expire SIX (6) MONTHS ute, cause the application to become ABANI	be timely filed O) days will be considered timely. Forom the mailing date of this communication. DONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 3-2	<u>26-04</u> .						
2a) ☐ This action is FINAL . 2b) ☑ The	This action is FINAL . 2b)⊠ This action is non-final.						
,— .,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>29-50</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	S) Claim(s) 29-50 is/are rejected.						
Application Papers							
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ccepted or b) objected to by ne drawing(s) be held in abeyance	See 37 CFR 1.85(a).					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached C	ffice Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. Ints have been received in Appriority documents have been releau (PCT Rule 17.2(a)).	lication No ceived in this National Stage					
Attachment(s)	🗖						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mary (PTO-413) lail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date		mal Patent Application (PTO-152)					

DETAILED ACTION

Claim Objections

1. Claims 33, 36, 40, 47 and 50 are objected to because of the following informalities:

Claim 33, lines 2 and 3; claim 40, lines 2 and 3 and claim 47, lines 2 and 3, "the plane" lacks an antecedent basis.

Claim 36, lines 2 and 3 and claim 50, line 2, "chamber" should be changed -- chamfer --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

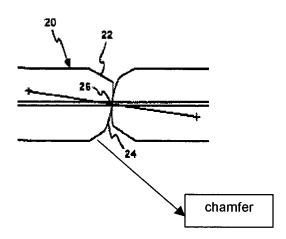
A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 29-33, 36-40, 43-47 and 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Lurie et al. (5,351,327).

Regarding claims 29-30, 37-38 and 44, Lurie et al., figure 2, disclose a ferrule (20) comprising: a ferrule body extending lengthwise between opposed front and rear faces to define a longitudinal axis (28). The ferrule body defining a lengthwise extending bore capable of receiving an end portion of an optical fiber and a chamfer (see a figure below), the chamfer being adjacent to the front face. Wherein the front

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face of the ferrule body including a compound surface having a ground portion (24) and an unground portion (22), the bore opens through a hemispherical ground portion.



Regarding claims 31, 39 and 45, the ground/unground portion is rearward of the unground/ground portion (depends on which direction, from the top to the bottom or from the bottom to the top)

Regarding claims 32 and 46, the unground portion is a plateau.

Regarding claims 33, 40 and 47, a plane coincident with the bore is disposed at an offset angle to a plane perpendicular to the longitudinal axis.

Regarding claims 36, 43 and 50 the ferrule body including a chamfer (see a figure above) and the unground portion is disposed proximate to the chamfer.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 34-35, 41-42 and 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lurie et al. (5,351,327).

Lurie et al. disclose the instant claimed invention as described above except for the plane coincident with the bore is disposed at an offset angle of between about 8 and about 12 degrees relative to the plane perpendicular to the longitudinal axis, and the unground portion extends across less than 50% of the front face of the ferrule body.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Lurie et al. to have the plane coincident with the bore is disposed at an offset angle of between about 8 and about 12 degrees relative to the plane perpendicular to the longitudinal axis, and the unground portion extends across less than 50% of the front face of the ferrule body, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233, in order to easily polish the fiber.

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Conclusion

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL. 7/28/04.

T. Le